

Please amend the present application as follows:

In the Claims

The following is a marked-up version of the claims with the language that is underlined ("___") being added and the language that contains strikethrough ("—") being deleted:

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- 1 1. (Canceled)
- 2 2. (Currently amended) A device for producing a composite ~~digital-video~~
3 graphical data stream containing pixel data corresponding to an image to be rendered,
4 the composite ~~digital-video~~ graphical data stream being formed from multiple ~~digital~~
5 ~~video~~ graphical data streams, each of the multiple ~~digital-video~~ graphical data streams
6 being provided by a graphics pipeline, each graphics pipeline being configured to
7 process pixel data corresponding to at least a portion of the image to be rendered, said
8 device comprising:
9 an input mechanism configured to receive the multiple ~~digital-video~~
10 graphical data streams from the graphics pipelines, provide a frame of data
11 corresponding to the image to be rendered, and insert pixel data from the multiple
12 ~~digital-video~~ graphical data streams into said frame of data such that, in response to
13 receiving a first of the multiple ~~digital-video~~ graphical data streams, said input
14 mechanism provides said frame of data and inserts the pixel data from the first of the
15 multiple ~~digital-video~~ graphical data streams into a ~~corresponding portion of~~ said
16 frame of data to form at least a portion of the composite ~~digital-video~~ graphical data
stream;

17 wherein said input mechanism has a first compositing element and a second
18 compositing element, said first compositing element being configured to provide said
19 frame of data ~~corresponding to the image to be rendered~~ in response to receiving pixel
20 data corresponding to the first of the multiple ~~digital-video~~ graphical data streams,
21 said first compositing element being further configured to insert the pixel data
22 corresponding to the first of the multiple ~~digital-video~~ graphical data streams into said
23 ~~corresponding portion of said frame of data~~ to form a first compositing ~~digital-video~~
24 graphical data stream, said pixel data corresponding to the first of the multiple
25 graphical data streams and a first displayed portion of said image, said second
26 compositing element being configured to receive pixel data corresponding to the
27 second of the multiple ~~digital-video~~ graphical data streams and said first compositing
28 ~~digital-video~~ graphical data stream, said pixel data corresponding to the second of the
29 multiple graphical data streams and a second displayed portion of said image, said
30 second compositing element being further configured to combine the pixel data
31 corresponding to the second of the multiple ~~digital-video~~ graphical data streams and
32 said first compositing ~~digital-video~~ graphical data stream to form a second
33 compositing digital video data stream.

1 3. (Currently amended) The device of claim 2, wherein the multiple
2 ~~digital-video~~ graphical data streams simultaneously provide pixel data to said input
3 mechanism, the first of the multiple ~~digital-video~~ graphical data streams containing
4 three-dimensional pixel data corresponding to the image to be rendered, the second of
5 the multiple ~~digital-video~~ graphical data streams containing two-dimensional pixel
6 data corresponding to the image to be rendered, and wherein said input mechanism is
7 configured to combine said two-dimensional pixel data and said three-dimensional
8 pixel data by replacing at least a portion of the pixel data provided by the second of
9 the multiple ~~digital-video~~ graphical data streams with at least a portion of the pixel
10 data provided by the first of the multiple ~~digital-video~~ graphical data streams.

1 4. (Currently amended) The device of claim 2, further comprising:
2 a controller electrically communicating with said input mechanism, said
3 controller being configured to provide a first control signal to said input mechanism,
4 said first control signal containing information regarding which portion of said frame
5 of data corresponds to the pixel data provided from the first of the multiple ~~digital~~
6 ~~video~~ graphical data streams such that, in response to receiving said first control
7 signal and the pixel data from the first of the multiple ~~digital-video~~ graphical data
8 streams, said input mechanism inserts the pixel data from the first of the multiple
9 ~~digital-video~~ graphical data streams into said corresponding portion of said frame of
10 data to form at least a portion of the composite ~~digital-video~~ graphical data stream.

1 5. (Currently amended) The device of claim 20 2, further comprising:
2 an output mechanism electrically communicating with said input mechanism,
3 said output mechanism being configured to receive the composite digital video data
4 stream and provide an output composite video data stream, said output composite
5 video data stream being selectively configurable as any one of an analog video data
6 stream, an analog stereo video data stream, a digital video data stream, and a digital
7 stereo video data stream.

B/ 1 6. (Currently amended) The device of claim 2, wherein said controller is
2 configured to provide a second control signal to said input mechanism, said second
3 control signal corresponding to one of multiple compositing modes, a first of said
4 compositing modes corresponding to each of the graphics pipelines providing pixel
5 data associated with an entire frame of the image to be rendered, the pixel data of each
6 of the graphics pipelines including a coordinate value offset with respect to pixel data
7 of others of the graphics pipelines, said input mechanism being configured to combine
8 the pixel data from the multiple ~~digital video~~ graphical data streams so as to blend
9 color values associated with corresponding coordinate values.

1 7. (Original) The device of claim 2, wherein said controller is configured
2 to provide a second control signal to said input mechanism, said second control signal
3 corresponding to one of multiple compositing modes, a first of said compositing
4 modes corresponding to each of the graphics pipelines providing pixel data associated
5 with a portion of the image to be rendered, the pixel data of each of the graphics
6 pipelines being super sampled, said input mechanism being configured to average,
7 with a selected weighting, the super-sampled pixel data.

1 8. (Currently amended) The device of claim 2, wherein said controller is
2 configured to provide a second control signal to said input mechanism, said second
3 control signal corresponding to one of multiple compositing modes, a first of said
4 compositing modes corresponding to each of the graphics pipelines providing pixel
5 data associated with a portion of the image to be rendered, said input mechanism
6 being configured to combine the pixel data from the multiple ~~digital-video~~ graphical
7 data streams to form the composite ~~digital-video~~ graphical data stream.

1 9. (Original) The device of claim 5, wherein said output mechanism has a
2 first left channel frame buffer, a second left channel frame buffer, a first right channel
3 frame buffer, and a second right channel frame buffer, said output mechanism being
4 selectively configured to provide said passive digital stereo video data stream by
5 receiving said composite digital video data stream, allocating pixel data from said
6 composite digital video data stream to said first left channel frame buffer, said second
7 left channel frame buffer, said first right channel frame buffer, and said second right
8 channel frame buffer, and simultaneously outputting pixel data from one of said left
9 channel frame buffers and one of said right channel frame buffers.

1 10-18. (Canceled)

1 19. (Currently amended) The device of claim 2, wherein said controller is
2 configured to provide a second control signal; a third control signal and a fourth
3 control signal selectively to said input mechanism;

4 said second control signal corresponding to a second of multiple compositing
5 modes, the second of said compositing modes corresponding to each of the graphics
6 pipelines providing pixel data associated with an entire frame of the image to be
7 rendered, the pixel data of each of the graphics pipelines including a coordinate value
8 offset with respect to pixel data of others of the graphics pipelines, said input
9 mechanism being configured to combine the pixel data from the multiple ~~digital-video~~
10 graphical data streams so as to blend color values associated with corresponding
11 coordinate values;

12 said third control signal corresponding to a third of multiple compositing
13 modes, a first of said compositing modes corresponding to each of the graphics
14 pipelines providing pixel data associated with a portion of the image to be rendered,
15 the pixel data of each of the graphics pipelines being super sampled, said input
16 mechanism being configured to average, with a selected weighting, the super-sampled
17 pixel data;

18 said fourth control signal corresponding to a fourth of multiple compositing
19 modes, the fourth of said compositing modes corresponding to each of the graphics
20 pipelines providing pixel data associated with a portion of the image to be rendered,
21 said input mechanism being configured to combine the pixel data from the multiple
22 ~~digital-video~~ graphical data streams to form the composite ~~digital-video~~ graphical data
23 stream.

1 20. (New) A device for producing a composite digital video data stream
2 containing pixel data corresponding to an image to be rendered, the composite digital
3 video data stream being formed from multiple digital video data streams, each of the
4 multiple digital video data streams being provided by a graphics pipeline, each
5 graphics pipeline being configured to process pixel data corresponding to at least a
6 portion of the image to be rendered, said device comprising:

7 an input mechanism configured to receive the multiple digital video
8 data streams from the graphics pipelines, provide a frame of data corresponding to the
9 image to be rendered, and insert pixel data from the multiple digital video data
10 streams into said frame of data such that, in response to receiving a first of the
11 multiple digital video data streams, said input mechanism provides said frame of data
12 and inserts the pixel data from the first of the multiple digital video data streams into a
13 said frame of data to form at least a portion of the composite digital video data stream;

14 wherein said input mechanism has a first compositing element and a second
15 compositing element, said first compositing element being configured to provide said
16 frame of data in response to receiving pixel data corresponding to the first of the
17 multiple digital video data streams, said first compositing element being further
18 configured to insert the pixel data corresponding to the first of the multiple digital
19 video data streams into said frame of data to form a first compositing digital video
20 data stream, said pixel data corresponding to the first of the multiple digital video data
21 streams and a first displayed portion of said image, said second compositing element
22 being configured to receive pixel data corresponding to the second of the multiple
23 digital video data streams and said first compositing digital video data stream, said
24 pixel data corresponding to the second of the multiple digital video data streams and a
25 second displayed portion of said image, said second compositing element being

26 further configured to combine the pixel data corresponding to the second of the
27 multiple digital video data streams and said first compositing digital video data stream
b1 28 to form a second compositing digital video data stream.
